



icon
Containment Solutions

For Release: April 4, 2015 – Icon “ProTex” Fitting Material

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Icon Containment Solutions, LLC has been actively researching and testing a range of materials for its various products since its beginning, for the purpose of identifying the most durable, lasting, and compatible materials for petroleum storage system repair applications. This is an ongoing process and will continue to be a major part of Icon’s mission.

Besides field and shop testing, Icon has used the resources, testing, and expertise of suppliers, customers, polymer materials manufacturers, Underwriter Laboratories, and independent research laboratories and testing companies, including UL, Eryou Engineering, and the European Polymer Research Laboratory at Queens University, to confirm the suitability of the materials and applications it offers for the challenging environments represented in UST and AST secondary containment sumps.

It’s critical to a repair fitting product that the material can be **split and chemically bonded together** such that the repair can be applied without disconnecting pipe for both compression seal and bonded seal design fittings. Urethane and Nitrile rubber based materials used in the industry for compression fittings have shown vulnerability to various levels of early degradation due to age, hydrolysis, microbial corrosion, and hydrocarbon vapor penetration in some environments. Ultimately, Icon has pursued materials that are significantly more durable than all other common materials used in the market today.

Icon is pleased to announce a material labeled “ProTex”, an exciting improvement in material design for SplitRepair compression seal sump entry and test fitting components. Icon ProTex has no urethane, but has an engineered copolymer material design that is split-bondable, proven to be all fuels compatible (methanol, ethanol, and bio-fuels in all typical blends), with no measurable hydrolysis, naturally anti-microbial, and with significant UV resistance. It demonstrates incredible memory, retains its elasticity over time, and in combination with the other properties, it is a repair material that should last through the end-life of a containment sump if installed properly.

The testing for Icon ProTex addressed the compatibility of all the latest fuel types and blends, and included true sump environments in which sump fittings are installed. Benchmark laboratory and field testing with other industry materials in a variety of categories of performance demonstrates that ProTex performs significantly better than previous UL listed materials in the industry today. Original UL971 testing confirmed that ProTex meets their standard for fuel compatibility. Testing also included High Density Hydrocarbons; Ozone; UV; High & Low-Temperatures; Water Saturation, and all current types of Fuels Saturation; Tensile Strength; Flexibility & Compression (with Torque); Microbial Corrosion; and Vibration Stress. Additionally, in the summer of 2018, Icon successfully completed another round of 3rd-party testing to the new and more extensive UL2447 standard requirements for product application effectiveness and compatibility.

All Icon SplitRepair “compression seal” fittings are being manufactured in ProTex material. Icon products are to be installed by Icon Certified Installers, and are only intended for uses described in the Icon training and marketing materials. Before use in any other application, user shall determine the suitability of the product by contacting Icon.

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